



Module PMRF-ISSS084/IV/2025

Equilibrium concepts in Game Theory

Name of the PMRF student

Joy Das Bairagya

Required background of the students taught

Knowledge of basic mathematics is required

Equilibria in Game

1. General introduction to the theory of games
2. Utility theory
3. Different representations of a game
4. Non-cooperative game: Two person zero-sum game and concept of equilibrium
5. Non-cooperative game: Two person non-zero sum game
6. Non-cooperative game: Equilibrium concepts in behavioural game theory
7. Non-cooperative game: Equilibrium concepts in evolutionary game theory
8. Two-person Cooperative game theory

Prisoner's dilemma

	B 	B 
A 	B stays silent   $R, -1$ $R, -1$	B testifies   $S, -3$ $T, 0$
A 	A stays silent   $T, 0$ $S, -3$	A testifies   $P, -2$ $P, -2$

Schedule of the module

Start Date: 15/09/2025

End Date: 22/09/2025

Total time: 14 Hours

Class time: Everyday from 5 pm – 7 pm

Meeting link : Will be shared later

<https://meet.google.com/ofu-zfxa-gdx>

Contact email

ID: joydasbairagya@gmail.com

Registration link:

<https://forms.gle/8N2uZw2j2mBjCSga8>